

INTERNATIONAL SEARCH REPORT

PCT/IB2004/052845

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G02F1/1334 G02F1/1333

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 204 900 B1 (FERGASON JAMES L) 20 March 2001 (2001-03-20) column 12, line 42 - line 65; figures 1,2 column 17, line 51 - column 18, line 32 -----	1-22
Y	EP 1 065 553 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 3 January 2001 (2001-01-03) cited in the application paragraph '0350! - paragraph '0355!; figure 8 -----	1-22
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22, 9 March 2001 (2001-03-09) -& JP 2001 133630 A (FUJI PHOTO FILM CO LTD), 18 May 2001 (2001-05-18) abstract -/-	16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
 "&" document member of the same patent family

Date of the actual completion of the international search

9 March 2005

Date of mailing of the international search report

18/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Ammerlahn, D

INTERNATIONAL SEARCH REPORT

PCT/IB2004/052845

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,Y	-& US 6 686 980 B1 (ICHIHASHI MITSUYOSHI) 3 February 2004 (2004-02-03) figure 1 -----	16
Y	EP 1 351 308 A (SEIKO EPSON CORPORATION) 8 October 2003 (2003-10-08) paragraph '0062! - paragraph '0142!; figures 3-6 -----	5,6,22
A	US 5 949 508 A (KUMAR ET AL) 7 September 1999 (1999-09-07) the whole document -----	1-22
A	US 6 486 932 B1 (NAKAO KENJI ET AL) 26 November 2002 (2002-11-26) the whole document -----	1-22
A	KIM IL ET AL: "Fabrication of electro-optic devices using liquid crystals with a single glass substrate" JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 92, no. 12, 15 December 2002 (2002-12-15), pages 7699-7701, XP012056854 ISSN: 0021-8979 the whole document -----	1-22

INTERNATIONAL SEARCH REPORT

PCT/IB2004/052845

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6204900	B1	20-03-2001	AU	6785598 A	22-10-1998
			WO	9844382 A1	08-10-1998
EP 1065553	A	03-01-2001	JP	3349946 B2	25-11-2002
			JP	11271740 A	08-10-1999
			JP	3418353 B2	23-06-2003
			JP	2000267074 A	29-09-2000
			JP	3418354 B2	23-06-2003
			JP	2000267143 A	29-09-2000
			EP	1065553 A1	03-01-2001
			CN	1293765 A	02-05-2001
			WO	9947967 A1	23-09-1999
JP 2001133630	A	18-05-2001	US	6686980 B1	03-02-2004
US 6686980	B1	03-02-2004	JP	2001133630 A	18-05-2001
EP 1351308	A	08-10-2003	JP	10125929 A	15-05-1998
			JP	10125930 A	15-05-1998
			JP	10125931 A	15-05-1998
			JP	11026734 A	29-01-1999
			EP	1351308 A1	08-10-2003
			CN	1199507 A ,C	18-11-1998
			EP	0858110 A1	12-08-1998
			WO	9809333 A1	05-03-1998
			JP	11074533 A	16-03-1999
			JP	2004140380 A	13-05-2004
			JP	2004140381 A	13-05-2004
			JP	2004140382 A	13-05-2004
			JP	2004140383 A	13-05-2004
			US	6372608 B1	16-04-2002
			US	2002146893 A1	10-10-2002
			US	2003224582 A1	04-12-2003
			US	2004219762 A1	04-11-2004
			US	6127199 A	03-10-2000
			US	RE38466 E1	16-03-2004
US 5949508	A	07-09-1999	EP	1038204 A1	27-09-2000
			JP	2001526408 T	18-12-2001
			WO	9930208 A1	17-06-1999
US 6486932	B1	26-11-2002	JP	2000206515 A	28-07-2000
			KR	2000035416 A	26-06-2000
			TW	498179 B	11-08-2002
			US	2002001053 A1	03-01-2002